V. *Some Inſtances of the very great and ſpeedy Vegetation of* TURNIPS. *Communicated by the Rev. Dr.* J. Theoph. Deſaguliers, *R. S. S.*

AT *Sutton Coldfield* in *Warwickſhire*, a peaty Ground near a Pool (of which it was formerly a part) was ſown with *Turnip-Seed* on the 2*d* Day of *July* 1702. In leſs than Three Days Time the Turnips were ſeen above Ground. At Three Weeks end the Roots were in Bigneſs equal to Walnuts. Within leſs than Five Weeks after the Sowing, the Gardener drew great Quantities of Turnips to ſell, they then being as big as large Apples. At the end of Six Weeks, *viz.* on the 12th Day of *Auguſt*, a large Turnip was plucked up (though probably not ſo big as ſeveral others then growing upon the ſame Ground) which, together with its Top and long deſcending part of the Root, weighed above Two Pounds and Fourteen Ounces. At the ſame time alſo was weighed an Ounce of the ſame ſort of Turnip-Seed, that the Gardener had ſown his Ground with; and afterwards a Thouſand of the Grains were counted ſingly out of the Ounce ſo weighed; and the reſt of the Ounce was divided into Heaps, as near as could be gueſſed, equal to the 1000 Seeds firſt ſevered and laid together: And it was found that the whole Ounce contain'd above 14600 ſingle Grains; which Number multiplied by 46 (*viz.* the Number of Ounces that the Turnip weighed) produceth 671,600, *viz.* the Number of ſingle Grains of Seed required to equal the Weight of the Turnip. From whence may be gathered, that (upon ſuppoſition, that the Increaſe of the Turnip was all along uniform and equal, from the Time

Time it was ſown till it was pluck'd up) the Grain of Seed which it ſprung from, weighing when it was ſown but $\frac{1}{14600}$ of an Ounce, was increaſed in Weight according to the following Proportions, *viz.*

In Six Weeks time	—	671,600	
Every Week	—	111,933 $\frac{1}{3}$	times its own Weight.
Every Day	—	15,990 $\frac{1}{2}$	
Every Hour	—	666 $\frac{1}{4}$	
Every Minute of an Hour	—	11	

Some time after, another Ounce of the ſame ſort of Seed was exactly weighed, and the Grains were found to be in Number 14673.

Another Turnip of the ſame Crop was plucked up on the 21*ſt* Day of *October*; and being put into a Scale, was found to weigh above Ten Pounds and an half; which unuſual and truly wonderful Bulk it acquired (it being ſuppoſed, as above, that the Growth was all along alike) by increaſing the Weight of the Seed it was raiſed from, 15 times in every Minute of an Hour from the Sowing to the Drawing of it.

The Gardener neglected to thin his Turnips in due Time, elſe probably their Growth had been more conſiderable.

At another Time, in two other ſorts of Turnip-Seed, it was found by counting, that an Ounce of one ſort contained 14702 Grains; and an Ounce of the other ſort no fewer than 14905 Grains.

It's credibly reported, that of late Years, Turnips have been pretty frequently found growing in ſeveral Counties of this Kingdom, that have weighed above twice as much; one of which was ſeen at *Birmingham* about the Year 1710.